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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

JNANA BHARATHI
BANGALORE - 560 056

FOR QUALITY & EXCELLENCE IN HIGHER EDUCATION
Accredited by NAAC

BUB/CTE/2014-15/ **Date: 05-03-2015**

1. TESTING OF FINE AGGREGATES:

Sub: Testing of Fine Aggregates.
{Project*: Improvements of road in low lying area of Balaji layout at 4th cross and 6th main road in ward No. 08..}

Ref.: Letter No. BUB/Testing/2014-15, dated 02-03-2015

Sample supplied to lab by : Assistant Executive Engineer
Kodigehalli Sub-Division
BBMP, Bangalore.

Name of the Contractor/ Agency*: M/s KRIDL, Bangalore.

AL-6

TABLE - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	98.10	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	86.90	60-95	75-100	85-100	
01.18	71.30	30-70	55-90	75-100	
600. mic	39.60	15-34	35-59	60-79	
300.mic	27.40	5-20	8-30	12-40	
150.mic	3.60	0-10	0-10	0-10	

TABLE 1.2 ;

Sl No	Test Conducted	Sample	Results	Requirements as Per IS. Specification IS :383-1970 (Reaffirmed 2002)
1	Silt Content	001	1.48 %	Not more than 8%
2.	Specific Gravity	----	2.59	-------

*As furnished by Client.
The Results relate only to the items tested.

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5/3/2015

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BANGALORE - 560 056

BUB/CTE/2014-15/ **Date: 11-03-2015**

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Improvements of road in low lying area of Balaji layout at 4th cross and 6th main road in ward No. 08..}
Ref.: Letter No. BUB/Testing/2014-15, dated 02-03-2015
Sample supplied to lab by : Assistant Executive Engineer
Kodigehalli Sub-Division
BBMP, Bangalore.
Name of the Contractor/ Agency*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Brand* : Birla Super Grade *: 53
Type * : OPC
Date : 03-03-2015 to 10-03-2015

SL No	Name of Test	Results	Requirements as per
		Cement Sample	IS 12269-1987
1	Initial setting time	**130 min**	Shall not be less than 30 min
2	Final setting time	**238 min**	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	**2.14 %**	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	**1.42 mm**	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results) b) 7 days (average of three results)	**30.24 N/ Sq mm** **41.75 N/Sq mm**	Shall not be less than 27 N/Sqmm Shall not be less than 37N/Sqmm

*As furnished by Client.
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BUB/CTE/2014-15/

Date: 05-03-2015

1. TESTING OF COARSE AGGREGATES (40 mm):

Sub: Testing of Coarse Aggregates.

{Project*: Improvements of road in low lying area of Balaji layout at 4th cross and 6th main road in ward No. 08..}

Ref.: Letter No. BUB/Testing/2014-15, dated 02-03-2015

Sample supplied to lab by : Assistant Executive Engineer
Kodigehalli Sub-Division
BBMP, Bangalore.

Name of the Contractor/ Agency*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	40 mm Sample	*Single size*	*Graded*
40mm	97.60	85-100	95 – 100
20mm	43.20	0 -20	30- 70
10mm	31.80	0 -5	10- 35
4.75mm	Nil	------	0 - 5

TABLE 12 :

SL No	Test conducted	Sample No	Results	Requirements as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	As above	15.26 %	Not to exceed 25 %
2.	Crushing value	----,,----	25.15 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

*As furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2015-16/ DATE: 16-04-2015

1. TEST REPORT ON CEMENT CONCRETE CUBES :

Sub: Testing of Concrete Cubes (28 days Compressive Strength)
{Project*: Improvements of road in low lying area of Balaji layout at 4th cross and 6th main road in ward No. 08..}

Ref.: Letter No. BUB/Testing/2015-16, dated 15-04-2015
Sample supplied to lab by : Assistant Executive Engineer
Kodigehalli Sub-Division
BBMP, Bangalore.
Name of the Contractor/ Agency*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

AE-6

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-03-15	15-04-15	28	22500	520	23.11	**23.47**
	002	"	"	"	"	530	23.55	
	003	"	"	"	"	535	23.77	

*As Furnished by Client.
The Results relate only to the items tested.

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Verified

16/4/2015
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